

**Summary of Bill of Quantities for Works**

***Including Addendum #1, Addendum #2, and Corrections noted in the Original BOQ***

***Note: Items changed via Add #1, Add #2, and Corrections to the original BOQ are shown in bold italics font.***

<b>Bill No.</b>	<b>Description</b>	<b>Price</b>
1	Preliminary and General	\$0
2	Miscellaneous Cast-In-Place Concrete	\$0
3	Wastewater Holding Tank, Sewer and Drain Piping	\$0
4	Water Piping and Wells	\$0
5	Power Supply	\$0
6	Miscellaneous Site Items	\$0
	Sub-total	<b><i>\$0</i></b>

**Bill No. 1 Preliminary and General**

Item No.	Description	Unit	Qty.	Unit Price	Price
1.01	Contractor's mobilization Compensation in full for the cost of establishing plant, equipment, materials and personnel on site to the satisfaction of the Engineer for the Contract.	LS	1		\$0
1.02	Contractor's Demobilization. Compensation in full for the cost of removing plant, equipment, facilities and personnel from the site, including restoration of the Area to a satisfactory condition as approved by the Engineer for the Contract.	LS	1		\$0
1.03	Site clearing/ Rough Grading	LS	1		\$0
1.04	Site Fill and Fine Grading. <i>The bicycle parking area and the main entrance road were raised approximately 20 cm to improve drainage (See Dwg C-04.5). This resulted in an additional 280 m3 of fill compared to the original BOQ (7/18/2010).</i>	cu. m	5580		\$0
1.05	<i>Demolish existing latrine in area of new wastewater treatment plant. This work was inadvertently left off of the original BOQ</i>	LS	1		\$0
1.06	<i>Demolish existing building and foundation in area of new substation. This work was inadvertently left off of the original BOQ</i>	LS	1		\$0

Total \$0

Bill No. 2 Miscellaneous Cast-In Place Concrete

Item No.	Description	Unit	Qty.	Unit Price	Price
2.01	150mm Depth Reinforced Concrete Sidewalk/Walkway/Assembly Area/Bike Parking Area. Works include base material and compaction, control joints. <i>Quantity of sidewalk is reduced due to elimination of new sidewalk near monument, per Dwg C-03.3 of Addendum #1 (48 m<sup>2</sup>). For Addendum #2, quantity of sidewalk is increased due to widening of sidewalk to NW entrance to school per Dwg C-03.1 (65 m<sup>2</sup>) and for expanding the NW corner of the bike parking area per Dwg C-03.5 (84 m<sup>2</sup>).</i>	sq. m	2377		\$0
2.02	150mm Depth Reinforced Concrete Driveway/Parking Area. Works include base material and compaction, control joints. <i>Quantity of pavement is reduced due to elimination of pavement near the "piano stairs" of the Linkway Building. See Dwg C-03.3 of Addendum #1 (65 m<sup>2</sup>). For Addendum #2, quantity of pavement is reduced due to narrowing of driveway and parking area to avoid existing landscaping per Dwg C-03.5 (183 m<sup>2</sup>).</i>	sq. m	2338		\$0
2.03	Reinforced Concrete Spill Pad for Water Tank - 1M x 1M x .4M <i>Refer to detail on Dwg C-10 of Addendum #1.</i>	LS	1		\$0
2.04	150 x 150mm Reinforced Concrete Curb. <i>Quantity of curb is reduced due to elimination of curb near the "piano stairs" of the Linkway Building, per Dwg C-03.3 of Addendum #2 (18 m). Quantity of curb is increased due to widening of areas around landscaping per Dwg C-03.5 of Addendum #2 (12 m).</i>	m	644		\$0
2.05	4.1 x 3.6 x 0.2 m Generator pad. <i>Generator pad has been lengthened 50 cm to butt up against the fuel tank enclosure per Dwg E-03.1 of Addendum #2.</i>	LS	1		\$0
2.06	2.4 x 9.6 x 0.2 m Transformer pad	LS	1		\$0

2.07	<b>Correction</b>	<b>Fuel tank spill containment structure, 4.5 m x 3.2 m x 0.8 m height walls, per Dwg E-08.1. Note that this structure was not contained in the original BOQ (7/18/2010). Per Addendum #2, this structure has been lengthened 50 cm to accommodate fuel piping and fuel filters.</b>	LS	1	\$0
		<b>Total</b>			<b>\$0</b>

**Bill No. 3 Wastewater Holding Tank, Sewer and Drain Piping**

Item No.	Description	Unit	Qty.	Unit Price	Price
3.01	30.00 x 9.1 x 0.20 m Reinforced Concrete Pad for WWTP as shown on C-21, including pumping and disposal of groundwater.	LS	1		\$0
3.02	<b>Correction</b> WWTP - 100mm Schedule 40 PVC Sludge Connection as shown on Sheet C-19, including heat tracing. <b>Note that the quantity of sludge connections has been changed to 2. This is a correction to the original bill of quantities (7/18/2010).</b>	LS	2		\$0
3.03	WWTP - 38,000 gpd package plant as shown Sheet C-20	ea	2		\$0
3.04	WWTP- 100mm SDR 17 HDPE pipe and Sch 80 PVC pipe for influent forcemain connections from pump station to WWTP, including 100mm influent valves and heat tracing, per C-19	LS	1		\$0
3.05	Reinforced Concrete Grey Water Storage Tank, including hatches, pumps and controls shown on C-13.	ea.	2		\$0
3.06	<b>Add #1</b> Reinforced Concrete Sanitary Pump Station including hatches, pumps, and controls as shown on Sheet C-16 <b>of Addendum #1. Provide deeper pump station</b>	LS	1		<b>\$0</b>
3.07	<b>Add #1</b> 150mm Diameter corrugated HDPE Pipe for sewer main including fittings, installed in trench with compacted backfill as shown on Sheet C-07.1 and C-07.2 <b>Provide deeper sewer line and extension for future Administration Building in accordance with Addendum #1.</b>	m	269		<b>\$0</b>
3.08	150mm Diameter corrugated HDPE Pipe for Grey Water Line Installed in trench with compacted backfill as shown on Sheet C-07.1 and C-07.2.	m	27		\$0
3.09	<b>Add #1</b> Reinforced Concrete Sewer Manhole with Frame, Grate, Ladder Rungs, and all appurtenances as shown on Sheet C-08.3. <b>Provide deeper manholes for future Administration Building in accordance with Addendum #1.</b>	ea.	5		<b>\$0</b>
3.10	Treated Effluent Outfall, Sch 80 PVC, including perimeter wall penetration as shown on Sheet C-05.1 and C-19	ea.	1		\$0
3.11	Sanitary Cleanout as shown on Sheet C-08.1	ea.	2		\$0
3.12	Backflow Prevention Device as shown on Sheet C-08.2	ea.	2		\$0

**Total**

**\$0**

**Bill No. 4 Water Piping and Wells**

Item No.	Description	Unit	Qty.	Unit Price	Price
4.01	4.8 x 8.8 m Potable Water Tank including Chlorine Feed, overflow and outflow piping, vent, excavation, backfill, installation, and necessary fittings, as shown on Sheet C-10	LS	1		\$0
4.02	Well construction including drilling, surface seal casing, casing, intake screen, filter pack, and well testing as shown on Sheet C-09.1 and c-09.2.	LS	1		\$0
4.03	Well Pump and controls, pad, discharge piping, valving, and appurtenances, including heat tracing as shown on Sheet C-09.2	LS	1		\$0
4.03A	<i>Correction</i> <b>Well enclosure (1.4 m x 3.2 m x 1.4 m height) with cover and hatch per Dwg. C-09.3. Note that the original BOQ (7/18/2010) did not include this structure.</b>	LS	1		\$0
4.04	Booster Pump house--all structural and architectural work (excluding louvers), including the sidewalk and stairs, as shown on Sheets C-22, A-01 to M-01	LS	1		\$0
4.05	Booster Pump House --Including all electrical and instrumentation work (excluding that provided under the booster pump and chlorination system items) as shown on E-10.1 and E-10.2.	LS	1		\$0
4.06	Booster Pump House - Chlorine Disinfection Unit and water dilution system as shown on Sheets C-22 and M-01	ea	1		\$0
4.07	Booster Pump house - Water Booster Pump and Pressure Tank Booster Paq as shown on Sheet C-22, including water supply and discharge piping within the footprint of the building.	ea	1		\$0
4.08	Booster Pump House - Mechanical equipment (heaters, fans) and louvers as shown on Sheet M-001.	ea	1		\$0
4.09	Water Service Connections as shown on Sheet C-07.1 and C-07.2	ea.	2		\$0
4.10	<i>Add #1</i> 150mm Diameter SDR 17 HDPE Water Main including fittings, installed in trench with compacted backfill and all necessary thrust blocks and pipe support as shown on Sheet C-07.1 and C-07.2. <b>Include the additional water line extended to serve the future Administration Building, per Dwg C-07.1 of Addendum #1.</b>	m	273		\$0

4.11		Buried Gate valves w/ valve box and 1x1m square concrete pad as shown on Sheet C-07.2	ea.	3	\$0
4.12	Add #1	<b>Non-freeze hose bib at the WWTP, including 50mm gate valve, 50 mm water line, non-freeze hose bib, and protective bollards, as shown on Dwg C-07.2 of Addendum #1.</b>	LS	1	\$0
		<b>Total</b>			<b>\$0</b>

**Bill No. 5 Power Supply**

Item No.		Description	Unit	Qty.	Unit Price	Price
5.01	Add #1	Electrical Duct bank Handholes as shown on Sheet E-02, and E-07. <b>Increase the number of hanholes due to the routing of ductbank around the future Admin Bldg, per Dwg E-02 of Addendum #1.</b>	ea.	23		\$0
5.02		2.6 x 1.8m 5,000 L Fuel Tank including appurtenances on E-08	LS	1		\$0
5.03		Electrical Ductbank trenches as shown on Sheets E-02 and E-03.1, including all raceway and conductors between the secondary unit substation and the service disconnects and panels as indicated in the electrical drawings.	LS	1		\$0
5.04	Correction	Generator, <b>160</b> kw, with acoustical enclosure, as shown on Sheet E-09. <b>Note that the generator size has been changed from 250 kw to 160 kw. This was an error in the original BOQ (7/18/2010).</b>	ea.	2		\$0

<b>5.04A</b>	<b>Add #2</b>	<b>Fuel system for generators per Dwg E-08.2, including piping, valves, fuel/water separators, and fuel supply and fuel return piping between fuel tank and generators.</b>	LS	<b>1</b>	<b>\$0</b>
5.05		Secondary Unit Substation as shown on Sheet E-04, E-05, and E-06	ea.	1	\$0
<b>5.06</b>	<b>Correction</b>	Manual Transfer Switch (300-Amp). <b>Note that this item is deleted from the BOQ. This equipment is not included in this project.</b>	ea.	0	\$0
		<b>Total</b>			<b>\$0</b>

**Bill No. 6 Miscellaneous Site Items**

<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Unit Price</b>	<b>Price</b>
6.01	Chain Link Security Fence including all related appurtenances as shown on Sheet 5.2	m	166		\$0
6.02	Chain Link Security Fence Single Swing Gate as shown on Sheet 5.3	ea.	4		\$0
6.03	Parking Space Pavement marking - 100mm Painted Yellow Stripe as shown on Sheet C-05.1	m	221		\$0
6.04	Gravel parking area, 200 mm gravel depth as shown on C-04.2	sq. m	192		\$0
6.05	Drainage pipe (200 mm HDPE) below sidewalk as shown on C-04.1	LS	1		\$0
6.06	3 x 0.96 m square tube steel fabricated bicycle rack as shown on Sheet C-05.1	LS	1		\$0
	<b>Total</b>				<b>\$0</b>